



RuleBot Proposal

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Vision Statement

- ◆ An automated non-GUI agent will interact with data oriented services.



Goal and Objective

- ◆ Provide an assured rule-driven automated agent to subscribe/publish to data sources.
- ◆ Develop RuleBot Server and Agent to leverage the NESSO Assurance Layer.



Today's Situation

- ◆ Current TFW architecture does not allow for data source access by non-Web browser applications.
- ◆ Access by non-GUI applications needs to be secure.



Available Options

- ◆ New Development
- ◆ Enhanced spiral development of PKI enabled data transfer (PEDX)
 - Advantage – Build on prior development



Recommendation

- ◆ Develop RuleBot prototype and implement on the Blue Diamond laboratory equipment.
- ◆ Result will provide a secure subscription/publication capability to applications through the use of a thin client agent and server.



Proposed RuleBot Functions

- ◆ Agent with authorization, authentication, and certificate management.
- ◆ Implement a rules-based subscribe/publish architecture for any data source
- ◆ Publish information to a data oriented service
- ◆ Subscribe to a data oriented service
- ◆ Monitor subscription/publication status
- ◆ Configure the RuleBot Agent
- ◆ User configure the subscription service

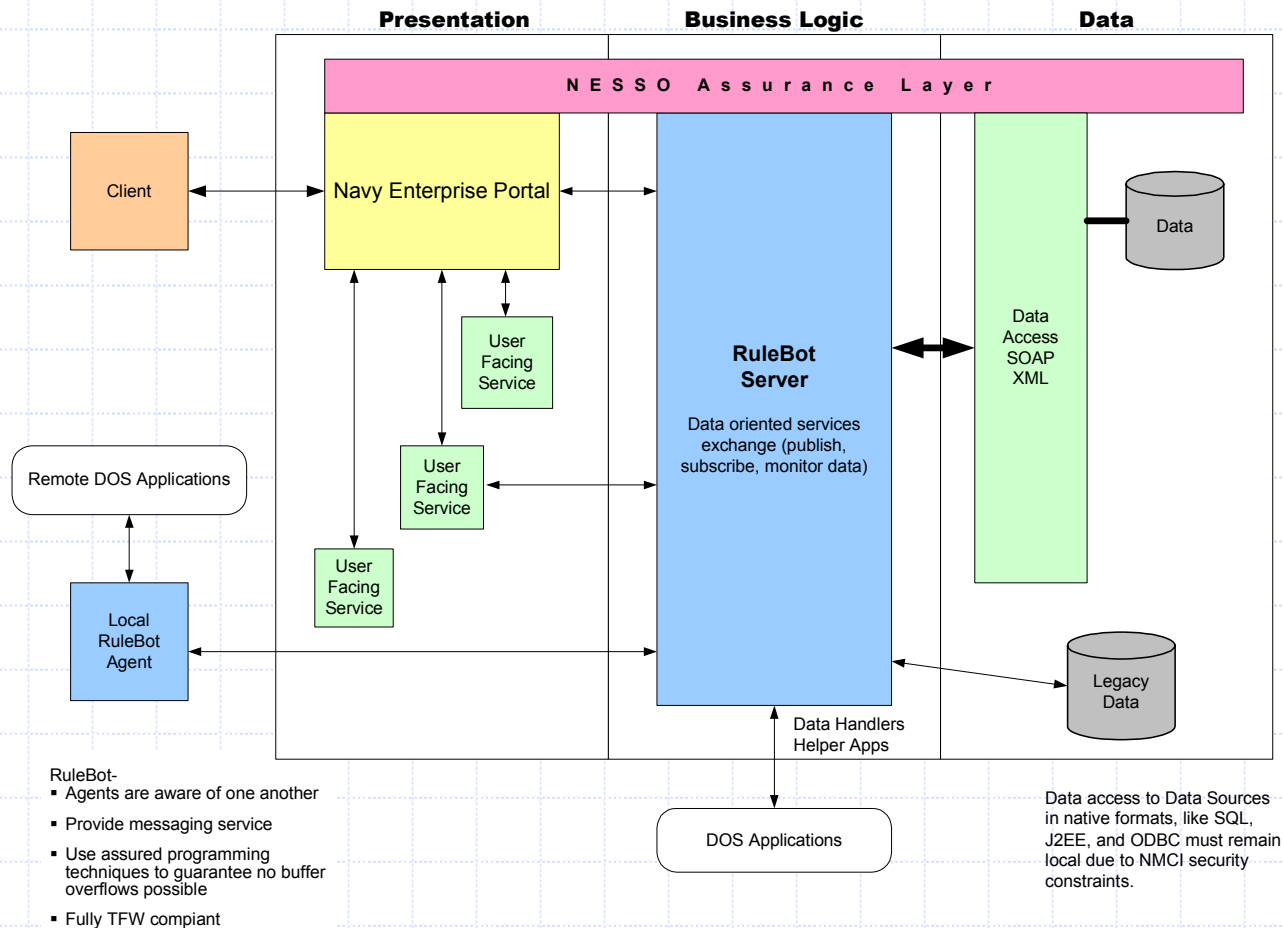


Limitations and Restrictions



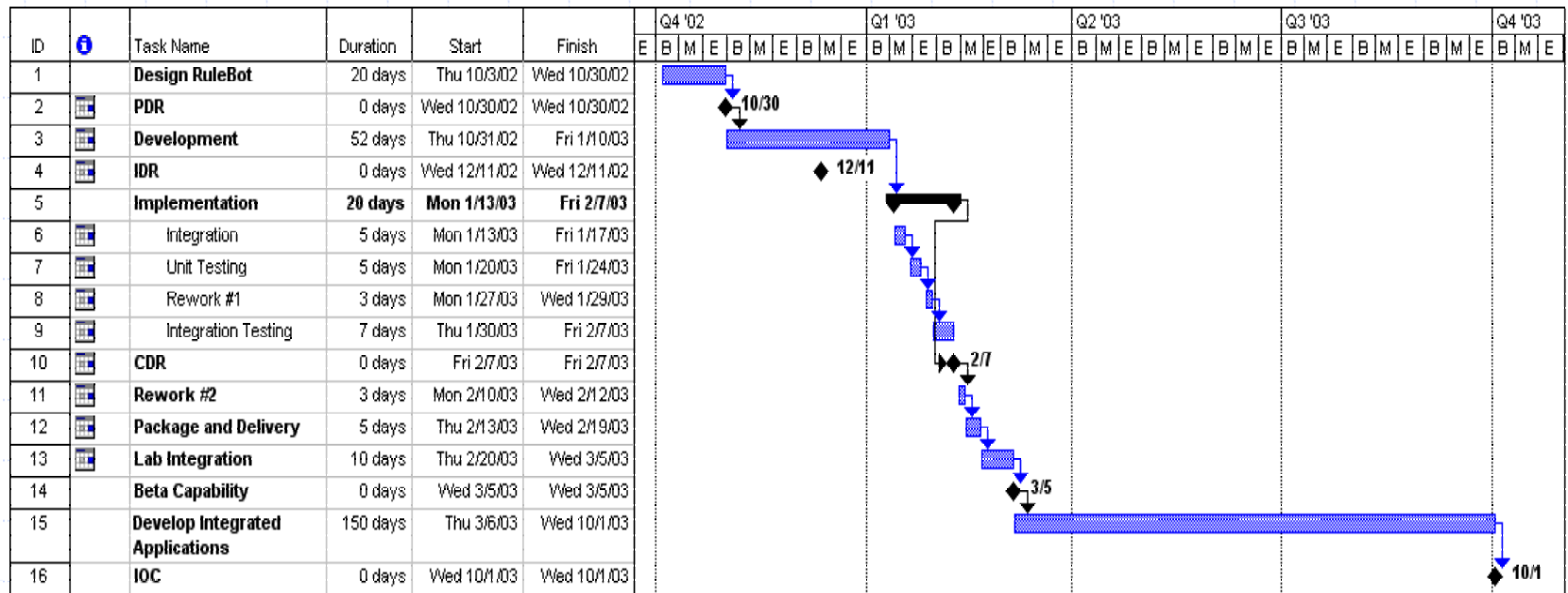
- ◆ NESSO Assurance Layer must be operational.
- ◆ Thin client for RuleBot agent must be certified.

System Data Flow Diagram





Proposed Schedule





Funding Details

Item	Estimate (\$K)
Hardware & Software	10
Labor	405
Travel	5
TOTAL:	\$420K



Questions?

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